



8-18-06

Feb

Attorney Docket No. 023542-0145

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Moser et al.

Title: POLYMERASE  
INHIBITOR AND  
METHOD OF USING  
SAME

Application No.: 10/551,705

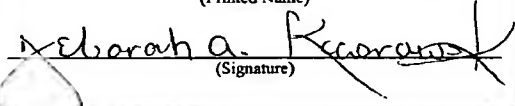
International Filing Date: 04/01/2004

371(c) Date: Not yet assigned

Examiner: Not yet assigned

Art Unit: Not yet assigned

Confirmation No.: Not yet assigned

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EV 829868050 US	August 17, 2006
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Deborah A. Kocorowski	
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Mail Stop **AMENDMENT**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL**

Transmitted herewith please find the following documents for the above-identified patent application.

- [ X ] Information Disclosure Statement Under 37 C.F.R. § 1.56 (2 pages).
- [ X ] Form PTO/SB/08 (4 pages) listing 82 references, enclosing copies of 11 foreign patent documents and copies of 23 non-patent documents (34 total copies).

Although the Applicants believe that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 50-2350.

Respectfully submitted,

Date 08-17-06

By Stephanie H. Vavra

FOLEY & LARDNER LLP  
Customer Number: 61495

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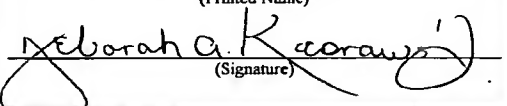


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**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.56**

Submitted herewith on Form PTO/SB/08 is a listing of documents known to the Applicants in order to comply with the Applicants' duty of disclosure pursuant to 37 C.F.R. § 1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 C.F.R. § 1.97 and § 1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 C.F.R. § 1.56(b). The Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 C.F.R. § 1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.

The Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with M.P.E.P. § 609.

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Date 08-17-06

By Stephanie H. Vavra

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Stephanie H. Vavra  
Attorney for the Applicants  
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AUG 17 2006

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Date Submitted: August 17, 2006

(use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/551,705
International Filing Date	04/01/2004 (371(c) Date not yet assigned)
First Named Inventor	Michael James Moser
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	023542-0145

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
/AB/	A1.	2006/0078936	A1	Grenier et al.	04-13-2006	
	A2.	2005/0084894	A1	Brow et al.	04-21-2005	
	A3.	2005/0014163	A1	Dong et al.	01-20-2005	
	A4.	2004/0106108	A1	Grenier et al.	06-03-2004	
	A5.	2003/0194705	A1	Schroth	10-16-2003	
	A6.	2002/0150900	A1	Marshall et al.	10-17-2002	
	A7.	2002/0132221	A1	Chee et al.	09-19-2002	
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	A26.	5,965,364		Benner	10-12-1999	
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	A40.	5,412,088		Jones et al.	05-02-1995	
	A41.	5,210,015		Gelfand et al.	05-11-1993	

Examiner  
Signature

/Amy Bowman/

Date  
Considered

06/17/2010

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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Date Submitted: August 17, 2006

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Sheet 2 of 4

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Application Number	10/551,705
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First Named Inventor	Michael James Moser
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	023542-0145

**U.S. PATENT DOCUMENTS**

U.S. Patent Document					
A42.	5,177,064		Bodor	01-05-1993	
A43.	5,126,439		Rappaport	06-30-1992	
A44.	4,996,143		Heller et al.	02-26-1991	
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A46.	4,683,202		Mullis	07-28-1987	
A47.	4,683,195		Mullis et al.	07-28-1987	
A48.	4,458,066		Caruthers et al.	07-03-1984	

**UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Application Document		Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A49.	WO	01/90417	A2	Marshall et al.	11-29-2001		
	A50.	EP	0 915 174	A1	Karube et al.	05-12-1999		
	A51.	WO	98/14610	A2	O'Neill et al.	04-09-1998		
	A52.	WO	97/46711	A1	Guo et al.	12-11-1997		
	A53.	EP	0 742 287	A2	McGall et al.	11-13-1996		
	A54.	WO	96/31622	A1	Southern et al.	10-10-1996		
	A55.	WO	94/21820	A1	Wallace	09-29-1994		
	A56.	WO	92/11389	A1	Erich et al.	07-09-1992		
	A57.	EP	0 416 817	B1	Newton	03-13-1991		
	A58.	EP	0 382 433	B1	Garman et al.	08-16-1990		
	A59.	WO	90/06042	A2	Hornes et al.	06-14-1990		

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A60.	BIGGINS et al., "A continuous assay for DNA cleavage: The application of "break lights" to enediynes, iron-dependent agents, and nucleases", <i>PNAS</i> , Vol. 97, No. 25, December 5, 2000 (pp. 13537-13542).	
	A61.	COBIANCHI et al., "Enzymes for Modifying and Labeling DNA and RNA", <i>Methods in Enzymology</i> , Vol. 152, Copyright © 1987 by Academic Press, Inc., (pp. 94-110).	
	A62.	HALL et al., "Sensitive detection of DNA polymorphisms by the serial invasive signal amplification reaction", <i>PNAS</i> , Vol. 97, No. 15, July 18, 2000 (pp. 8272-8277).	
	A63.	HORLACHER et al., "Recognition by viral and cellular DNA polymerases of nucleosides bearing bases with nonstandard hydrogen bonding patterns", <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, July 1995 (pp. 6329-6333).	
	A64.	JOHNSON et al., "A third base pair for the polymerase chain reaction: inserting isoC and isoG", <i>Nucleic Acids Research</i> , Vol. 32, No. 6, 2004, (pp. 1937-1941).	
	A65.	JURCZYK et al., "Synthesis of 2'-Deoxysoguanosine 5'-Triphosphate and 2'-Deoxy-5-methylisocytidine 5'-Triphosphate", <i>Helvetica Chimica Acta</i> , Vol. 82, 1999 (pp. 1005-1015).	
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	A68.	MOSER et al., "Quantifying Mixed Populations of Drug-Resistant Human Immunodeficiency Virus type 1", <i>ANTIMICROBIAL AGENTS AND CHEMOTHERAPY</i> , Vol. 49, No. 8, Aug. 2005 (pp. 3334-3340).	
	A69.	MOSER et al., "Enzymatic repair of an expanded genetic information system", <i>Nucleic Acids Research</i> , Vol. 31, No. 27, 2003 (pp. 5048-5053).	
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	A73.	SEPIOL et al., "Tautomerism of Isoguanosine and Solvent-Induced Keto-Enol Equilibrium", <i>Z. Naturforsch.</i> , 1976 (pp. 361-370).	
	A71.	SISMOUR et al., "The use of thymidine analogs to improve the replication of an extra DNA base pair: a synthetic biological system", <i>Nucleic Acids Research</i> , Vol. 33, No. 17, 2005 (pp. 5640-5646).	
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	A76.	SWITZER et al., "Enzymatic Recognition of the Base Pair between Isocytidine and Isoguanosine", <i>Biochemistry</i> , Vol. 32, No. 39, 1993 (pp. 10489-10496).	
	A77.	TABRIZI et al., "Evaluation of real time polymerase chain reaction assays for confirmation of <i>Neisseria gonorrhoeae</i> in clinical samples tested positive in the Roche Cobas Amplicor assay", <i>Sex Transm Infect.</i> , Vol. 80, 2004 (pp. 68-71).	

Examiner  
SignatureDate  
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/AB/	A78.	TOR et al., "Site-Specific Enzymatic Incorporation of an Unnatural Base, N <sup>6</sup> -(6-Aminoethyl)isoguanosine, into RNA", J. Am. Chem. Soc., Vol. 115, No. 11, 1993 (pp. 4461-4467).	
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/AB/	A82.	ZUBAY, "A Case for an Additional RNA Base Pair in Early Evolution", Reprint from: <u>The Roots of Modern Biochemistry</u> , © 1988 Walter de Gruyter & Co., Berlin, New York (4 pp.).	

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Signature

/Amy Bowman/

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